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RAW SEQUENCE LISTING DATE: 04/12/2002
PATENT APPLICATION: **US/09/898,751A** TIME: 15:01:06

Input Set : **A:\DX0882XKseqlstg.txt**
Output Set: **N:\CRF3\04122002\I898751A.raw**

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     <110> APPLICANT: Oldham, Elizabeth R.
           Soto, Hortensia
           Liu, Ying
           Hudak, Susan A.
           Homey, Bernhard
           Morales, Janine M.
           Kellerman, Sirid-Aimee
           McEvoy, Leslie M.
           Bowman, Edward P.
           Zlotnik, Albert
     <120> TITLE OF INVENTION: CHEMOKINE AND RECEPTOR USES; COMPOSITIONS; METHODS
     <130> FILE REFERENCE: DX0882XK
C--> <140> CURRENT APPLICATION NUMBER: US/09/898,751A
     <141> CURRENT FILING DATE: 2001-07-02
     <150> PRIOR APPLICATION NUMBER: US09/471,549
     <151> PRIOR FILING DATE: 1999-12-23
     <150> PRIOR APPLICATION NUMBER: US60/136,570
     <151> PRIOR FILING DATE: 1999-05-27
     <150> PRIOR APPLICATION NUMBER: US60/113,858
     <151> PRIOR FILING DATE: 1998-12-24
     <160> NUMBER OF SEQ ID NOS: 16
     <170> SOFTWARE: PatentIn version 3.1
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     <211> LENGTH: 1089
     <212> TYPE: DNA
     <213> ORGANISM: Homo sapiens
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     gat gaa gag gac gca tac tcg gct gag cca ctg ccg gag ctt tgc tac       96
     Asp Glu Glu Asp Ala Tyr Ser Ala Glu Pro Leu Pro Glu Leu Cys Tyr
                 20                  25                  30
     aag gcc gat gtc cag gcc ttc agc cgg gcc ttc caa ccc agt gtc tcc      144
     Lys Ala Asp Val Gln Ala Phe Ser Arg Ala Phe Gln Pro Ser Val Ser
             35                  40                  45
     ctg acg ctg gct gcg ctg ggt ctg gcc ggc aat ggc ctg gtc ctg gcc      192
     Leu Thr Leu Ala Ala Leu Gly Leu Ala Gly Asn Gly Leu Val Leu Ala
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RAW SEQUENCE LISTING                           DATE: 04/12/2002
PATENT APPLICATION:  US/09/898,751A             TIME: 15:01:06

Input Set : A:\DX0882XKseqlstg.txt
Output Set: N:\CRF3\04122002\I898751A.raw

acc cac ctg gca gcc cga cgc gca gcg cgc tcg ccc acc tct gcc cac       240
Thr His Leu Ala Ala Arg Arg Ala Ala Arg Ser Pro Thr Ser Ala His
65                  70                  75                  80
ctg ctc cag ctg gcc ctg gcc gac ctc ttg ctg gcc ctg act ctg ccc       288
Leu Leu Gln Leu Ala Leu Ala Asp Leu Leu Leu Ala Leu Thr Leu Pro
                85                  90                  95
ttc gcg gca gca ggg gct ctt cag ggc tgg agt ctg gga agt gcc acc       336
Phe Ala Ala Ala Gly Ala Leu Gln Gly Trp Ser Leu Gly Ser Ala Thr
            100                 105                 110
tgc cgc acc atc tct ggc ctc tac tcg gcc tcc ttc cac gcc ggc ttc       384
Cys Arg Thr Ile Ser Gly Leu Tyr Ser Ala Ser Phe His Ala Gly Phe
        115                 120                 125
ctc ttc ctg gcc tgt atc agc gcc gac cgc tac gtg gcc atc gcg cga       432
Leu Phe Leu Ala Cys Ile Ser Ala Asp Arg Tyr Val Ala Ile Ala Arg
    130                 135                 140
gcg ctc cca gcc ggg ccg cgg ccc tcc act ccc ggc cgc gca cac ttg       480
Ala Leu Pro Ala Gly Pro Arg Pro Ser Thr Pro Gly Arg Ala His Leu
145                 150                 155                 160
gtc tcc gtc atc gtg tgg ctg ctg tca ctg ctc ctg gcg ctg cct gcg       528
Val Ser Val Ile Val Trp Leu Leu Ser Leu Leu Leu Ala Leu Pro Ala
                165                 170                 175
ctg ctc ttc agc cag gat ggg cag cgg gaa ggc caa cga cgc tgt cgc       576
Leu Leu Phe Ser Gln Asp Gly Gln Arg Glu Gly Gln Arg Arg Cys Arg
            180                 185                 190
ctc atc ttc ccc gag ggc ctc acg cag acg gtg aag ggg gcg agc gcc       624
Leu Ile Phe Pro Glu Gly Leu Thr Gln Thr Val Lys Gly Ala Ser Ala
        195                 200                 205
gtg gcg cag gtg gcc ctg ggc ttc gcg ctg ccg ctg ggc gtc atg gta       672
Val Ala Gln Val Ala Leu Gly Phe Ala Leu Pro Leu Gly Val Met Val
    210                 215                 220
gcc tgc tac gcg ctt ctg ggc cgc acg ctg ctg gcc gcc agg ggg ccc       720
Ala Cys Tyr Ala Leu Leu Gly Arg Thr Leu Leu Ala Ala Arg Gly Pro
225                 230                 235                 240
gag cgc cgg cgt gcg ctg cgc gtc gtg gtg gct ctg gtg gcg gcc ttc       768
Glu Arg Arg Arg Ala Leu Arg Val Val Val Ala Leu Val Ala Ala Phe
                245                 250                 255
gtg gtg ctg cag ctg ccc tac agc ctc gcc ctg ctg ctg gat act gcc       816
Val Val Leu Gln Leu Pro Tyr Ser Leu Ala Leu Leu Leu Asp Thr Ala
            260                 265                 270
gat cta ctg gct gcg cgc gag cgg agc tgc cct gcc agc aaa cgc aag       864
Asp Leu Leu Ala Ala Arg Glu Arg Ser Cys Pro Ala Ser Lys Arg Lys
        275                 280                 285
gat gtc gca ctg ctg gtg acc agc ggc ttg gcc ctc gcc cgc tgt ggc       912
Asp Val Ala Leu Leu Val Thr Ser Gly Leu Ala Leu Ala Arg Cys Gly
    290                 295                 300
ctc aat ccc gtt ctc tac gcc ttc ctg ggc ctg cgc ttc cgc cag gac       960
Leu Asn Pro Val Leu Tyr Ala Phe Leu Gly Leu Arg Phe Arg Gln Asp
305                 310                 315                 320
ctg cgg agg ctg cta cgg ggt ggg agc tcg ccc tca ggg cct caa ccc      1008
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Leu Arg Arg Leu Leu Arg Gly Gly Ser Ser Pro Ser Gly Pro Gln Pro
                325                 330                 335
cgc cgc ggc tgc ccc cgc cgg ccc cgc ctt tct tcc tgc tca gct ccc       1056
Arg Arg Gly Cys Pro Arg Arg Pro Arg Leu Ser Ser Cys Ser Ala Pro
            340                 345                 350
acg gag acc cac agt ctc tcc tgg gac aac tag                           1089
Thr Glu Thr His Ser Leu Ser Trp Asp Asn
        355                 360
<210> SEQ ID NO: 2
<211> LENGTH  362
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
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            20                  25                  30
Lys Ala Asp Val Gln Ala Phe Ser Arg Ala Phe Gln Pro Ser Val Ser
        35                  40                  45
Leu Thr Leu Ala Ala Leu Gly Leu Ala Gly Asn Gly Leu Val Leu Ala
    50                  55                  60
Thr His Leu Ala Ala Arg Arg Ala Ala Arg Ser Pro Thr Ser Ala His
65                  70                  75                  80
Leu Leu Gln Leu Ala Leu Ala Asp Leu Leu Leu Ala Leu Thr Leu Pro
                85                  90                  95
Phe Ala Ala Ala Gly Ala Leu Gln Gly Trp Ser Leu Gly Ser Ala Thr
            100                 105                 110
Cys Arg Thr Ile Ser Gly Leu Tyr Ser Ala Ser Phe His Ala Gly Phe
        115                 120                 125
Leu Phe Leu Ala Cys Ile Ser Ala Asp Arg Tyr Val Ala Ile Ala Arg
    130                 135                 140
Ala Leu Pro Ala Gly Pro Arg Pro Ser Thr Pro Gly Arg Ala His Leu
145                 150                 155                 160
Val Ser Val Ile Val Trp Leu Leu Ser Leu Leu Leu Ala Leu Pro Ala
                165                 170                 175
Leu Leu Phe Ser Gln Asp Gly Gln Arg Glu Gly Gln Arg Arg Cys Arg
            180                 185                 190
Leu Ile Phe Pro Glu Gly Leu Thr Gln Thr Val Lys Gly Ala Ser Ala
        195                 200                 205
Val Ala Gln Val Ala Leu Gly Phe Ala Leu Pro Leu Gly Val Met Val
    210                 215                 220
Ala Cys Tyr Ala Leu Leu Gly Arg Thr Leu Leu Ala Ala Arg Gly Pro
225                 230                 235                 240
Glu Arg Arg Arg Ala Leu Arg Val Val Val Ala Leu Val Ala Ala Phe
                245                 250                 255
Val Val Leu Gln Leu Pro Tyr Ser Leu Ala Leu Leu Leu Asp Thr Ala
            260                 265                 270
Asp Leu Leu Ala Ala Arg Glu Arg Ser Cys Pro Ala Ser Lys Arg Lys
        275                 280                 285
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                         RAW SEQUENCE LISTING                 DATE: 04/12/2002
                         PATENT APPLICATION:  US/09/898,751A    TIME: 15:01:06

                         Input Set : A:\DX0882XKseqlstg.txt
                         Output Set: N:\CRF3\04122002\I898751A.raw

218 Asp Val Ala Leu Leu Val Thr Ser Gly Leu Ala Leu Ala Arg Cys Gly
219     290                 295                 300
222 Leu Asn Pro Val Leu Tyr Ala Phe Leu Gly Leu Arg Phe Arg Gln Asp
223 305                 310                 315                 320
226 Leu Arg Arg Leu Leu Arg Gly Gly Ser Ser Pro Ser Gly Pro Gln Pro
227                 325                 330                 335
230 Arg Arg Gly Cys Pro Arg Arg Pro Arg Leu Ser Ser Cys Ser Ala Pro
231             340                 345                 350
234 Thr Glu Thr His Ser Leu Ser Trp Asp Asn
235         355                 360
238 <210> SEQ ID NO: 3
239 <211> LENGTH: 1089
240 <212> TYPE: DNA
241 <213> ORGANISM: Mus musculus
243 <220> FEATURE:
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245 <222> LOCATION: (1)..(1086)
246 <223> OTHER INFORMATION:
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251 Met Gly Thr Lys Pro Thr Glu Gln Val Ser Trp Gly Leu Tyr Ser Gly
252 1               5                   10                  15
254 tac gat gag gag gcc tat tcg gtt ggg ccg ctg cca gag ctc tgt tac       96
255 Tyr Asp Glu Glu Ala Tyr Ser Val Gly Pro Leu Pro Glu Leu Cys Tyr
256             20                  25                  30
258 aag gct gat gtc cag gct ttc agt cgg gcc ttc caa ccc agt gtc tcc      144
259 Lys Ala Asp Val Gln Ala Phe Ser Arg Ala Phe Gln Pro Ser Val Ser
260         35                  40                  45
262 ctg atg gtg gct gta ctg ggt ctg gct ggc aat ggc cta gtc ttg gcc      192
263 Leu Met Val Ala Val Leu Gly Leu Ala Gly Asn Gly Leu Val Leu Ala
264     50                  55                  60
266 acc cat ctg gca gcc aga cga act acc cga tct ccc acc tcc gtt cac      240
267 Thr His Leu Ala Ala Arg Arg Thr Thr Arg Ser Pro Thr Ser Val His
268 65                  70                  75                  80
270 ctg ctc cag ttg gcc ctg gct gac ctt tta ttg gcc ctg act ttg cct      288
271 Leu Leu Gln Leu Ala Leu Ala Asp Leu Leu Leu Ala Leu Thr Leu Pro
272                 85                  90                  95
274 ttt gct gca gca ggg gct ctt cag ggc tgg aat cta gga agt acc acc      336
275 Phe Ala Ala Ala Gly Ala Leu Gln Gly Trp Asn Leu Gly Ser Thr Thr
276             100                 105                 110
278 tgc cgt gcc atc tca ggc ctc tac tcg gcc tct ttc cac gct ggc ttc      384
279 Cys Arg Ala Ile Ser Gly Leu Tyr Ser Ala Ser Phe His Ala Gly Phe
280         115                 120                 125
282 ctc ttc cta gcc tgt atc agc gcc gac cgc tat gtg gcc atc gca cga      432
283 Leu Phe Leu Ala Cys Ile Ser Ala Asp Arg Tyr Val Ala Ile Ala Arg
284     130                 135                 140
286 gct ctc cca gcc ggg cag cgg ccc tca acg cct agc cga gcg cac ttg      480
287 Ala Leu Pro Ala Gly Gln Arg Pro Ser Thr Pro Ser Arg Ala His Leu
288 145                 150                 155                 160
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RAW SEQUENCE LISTING                       DATE: 04/12/2002
PATENT APPLICATION:  US/09/898,751A         TIME: 15:01:06

Input Set : A:\DX0882XKseqlstg.txt
Output Set: N:\CRF3\04122002\I898751A.raw

gtt tca gtc ttc gtg tgg ctg ttg gcg ctg ttt ctg gct cta cct gcg       528
Val Ser Val Phe Val Trp Leu Leu Ala Leu Phe Leu Ala Leu Pro Ala
                165                 170                 175
ctc ctt ttc agc cgg gac ggg cca cgt gaa ggc caa cga cgc tgt cgg       576
Leu Leu Phe Ser Arg Asp Gly Pro Arg Glu Gly Gln Arg Arg Cys Arg
            180                 185                 190
ctc att ttt ccc gaa agc ctc acg cag act gtg aaa ggg gca agc gca       624
Leu Ile Phe Pro Glu Ser Leu Thr Gln Thr Val Lys Gly Ala Ser Ala
        195                 200                 205
gtg gcg cag gtg gtc ctc ggc ttc gcg ctc cct ctg ggc gtc atg gca       672
Val Ala Gln Val Val Leu Gly Phe Ala Leu Pro Leu Gly Val Met Ala
    210                 215                 220
gcc tgt tat gcg ctc ctg ggc cgc acg ctt ctg gcc gcc agg ggg cca       720
Ala Cys Tyr Ala Leu Leu Gly Arg Thr Leu Leu Ala Ala Arg Gly Pro
225                 230                 235                 240
gag cgg cgg cgt gca ctg cgc gtc gtg gtg gct ttg gtg gtg gcc ttc       768
Glu Arg Arg Arg Ala Leu Arg Val Val Val Ala Leu Val Val Ala Phe
                245                 250                 255
gtg gtg ctg cag ttg ccc tac agc ctt gcc ctg ctg ctg gat aca gcc       816
Val Val Leu Gln Leu Pro Tyr Ser Leu Ala Leu Leu Leu Asp Thr Ala
            260                 265                 270
gat cta ctg gca gcc cgc gag cgg agc tgc tcc tcc agc aag cgc aag       864
Asp Leu Leu Ala Ala Arg Glu Arg Ser Cys Ser Ser Ser Lys Arg Lys
        275                 280                 285
gat cta gct ttg ctg gtc acc ggc ggc ttg acc ctg gtc cgt tgc agc       912
Asp Leu Ala Leu Leu Val Thr Gly Gly Leu Thr Leu Val Arg Cys Ser
    290                 295                 300
ctc aat ccg gtg ctt tat gcc ttt ttg ggc ctg cgt ttc cgc cgg gac       960
Leu Asn Pro Val Leu Tyr Ala Phe Leu Gly Leu Arg Phe Arg Arg Asp
305                 310                 315                 320
ctg cgg agg ctg ctc cag ggc gga gga tgc agc ccg aag ccc aac cct      1008
Leu Arg Arg Leu Leu Gln Gly Gly Gly Cys Ser Pro Lys Pro Asn Pro
                325                 330                 335
cgt ggc cgc tgc ccc cgt cga ctc cgc ctt tct tcc tgc tct gct cct      1056
Arg Gly Arg Cys Pro Arg Arg Leu Arg Leu Ser Ser Cys Ser Ala Pro
            340                 345                 350
act gag acc cac agt ctc tct tgg gac aac tag                          1089
Thr Glu Thr His Ser Leu Ser Trp Asp Asn
        355                 360
<210> SEQ ID NO: 4
<211> LENGTH: 362
<212> TYPE: PRT
<213> ORGANISM: Mus musculus
<400> SEQUENCE: 4
Met Gly Thr Lys Pro Thr Glu Gln Val Ser Trp Gly Leu Tyr Ser Gly
1               5                   10                  15
Tyr Asp Glu Glu Ala Tyr Ser Val Gly Pro Leu Pro Glu Leu Cys Tyr
            20                  25                  30
Lys Ala Asp Val Gln Ala Phe Ser Arg Ala Phe Gln Pro Ser Val Ser
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VERIFICATION SUMMARY                              DATE: 04/12/2002
PATENT APPLICATION:  US/09/898,751A                TIME: 15:01:07

Input Set : A:\DX0882XKseqlstg.txt
Output Set: N:\CRF3\04122002\I898751A.raw

L:18 M:270 C: Current Application Number differs, Replaced Current Application Number
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